

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1058095

Luminaire Tested: S122RDR-S675D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D940-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

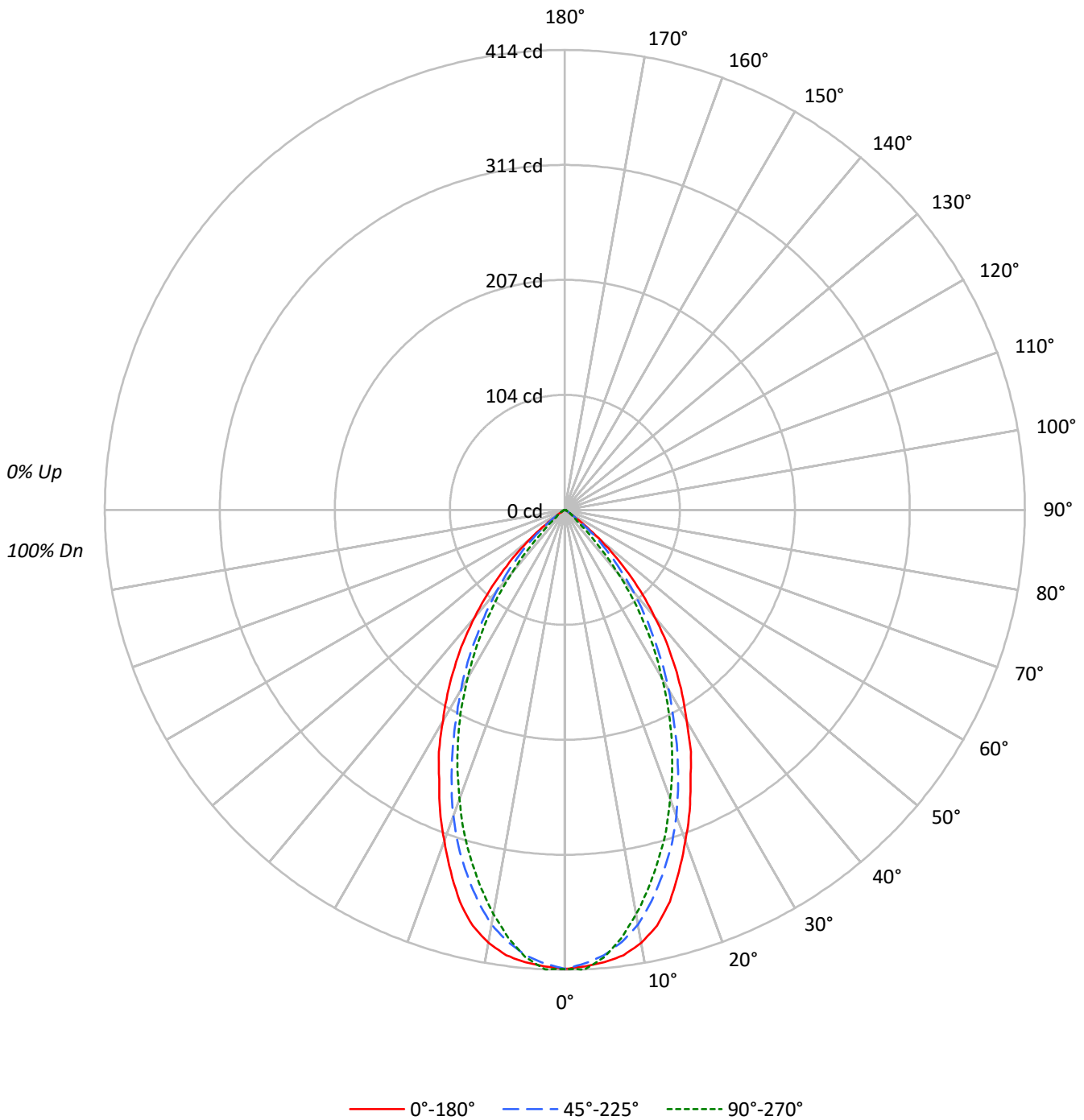
Lumens per Lamp: N/A
Luminaire Lumens: 388.5 lumens
Efficiency: N/A
Efficacy: 15.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7625	7625	7625
5°	7572	7459	7491
10°	7414	7103	6923
15°	6975	6491	6224
20°	6227	5763	5437
25°	5442	4872	4624
30°	4673	3982	3722
35°	3897	3109	2793
40°	3030	2293	1787
45°	2119	1527	775
50°	1154	804	276
55°	167	280	196
60°	33	63	129
65°	0	39	74
70°	0	0	49
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	9.8
10°-20°	95.7	24.6
20°-30°	111.5	28.7
30°-40°	89.4	23.0
40°-50°	44.4	11.4
50°-60°	8.8	2.3
60°-70°	0.8	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	245.1	63.1
0°-40°	334.5	86.1
0°-60°	387.7	99.8
0°-90°	388.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	409	409	403	404	404	39
15°	365	358	340	331	326	101
25°	267	254	239	234	227	123
35°	173	156	138	132	124	108
45°	81	72	58	39	30	63
55°	5	10	9	5	6	11
65°	0	0	1	1	2	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.2	413.2	413.2	413.2	413.2
2.5°	411.4	413.2	408.8	413.2	414.0
5°	408.8	408.8	402.7	403.6	404.4
7.5°	404.4	402.7	392.2	390.5	388.7
10°	395.7	392.2	379.1	372.1	369.5
12.5°	383.5	378.2	360.8	352.9	348.5
15°	365.1	358.1	339.8	331.1	325.8
17.5°	341.5	335.4	318.0	308.3	303.1
20°	317.1	308.3	293.5	283.9	276.9
22.5°	293.5	282.1	266.4	259.4	252.4
25°	267.3	254.2	239.3	234.1	227.1
27.5°	245.5	228.9	211.4	207.9	201.8
30°	219.3	203.5	186.9	181.7	174.7
32.5°	196.5	179.1	162.5	156.4	150.2
35°	173.0	155.5	138.0	131.9	124.0
37.5°	150.2	133.6	116.2	106.6	99.6
40°	125.8	111.8	95.2	83.0	74.2
42.5°	103.9	91.7	76.0	60.3	51.5
45°	81.2	71.6	58.5	39.3	29.7
47.5°	60.3	53.3	42.8	22.7	15.7
50°	40.2	37.6	28.0	11.4	9.6
52.5°	21.8	23.6	16.6	7.0	7.9
55°	5.2	10.5	8.7	5.2	6.1
57.5°	0.9	1.7	4.4	4.4	4.4
60°	0.9	0.9	1.7	2.6	3.5
62.5°	0.9	0.0	0.9	1.7	2.6
65°	0.0	0.0	0.9	0.9	1.7
67.5°	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.9
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)